



## SEQUENCE LISTING

<110> THE REGENTS OF THE UNIVERSITY OF CALIFORNIA  
ALBANI, Salvatore  
PRAKKEN, Berent

<120> STRESS PROTEINS AND PEPTIDES AND METHODS OF USE THEREOF

<130> UCSD1310-1

<140> US 09/828,574

<141> 2001-04-06

<150> US 60/224,104

<151> 2000-08-09

<160> 13

<170> PatentIn version 3.0

<210> 1

<211> 573

<212> PRT

<213> Homo sapiens

<400> 1

Met Leu Arg Leu Pro Thr Val Phe Arg Gln Met Arg Pro Val Ser Arg  
1 5 10 15  
Val Leu Ala Pro His Leu Thr Arg Ala Tyr Ala Lys Asp Val Lys Phe  
20 25 30  
Gly Ala Asp Ala Arg Ala Leu Met Leu Gln Gly Val Asp Leu Leu Ala  
35 40 45  
Asp Ala Val Ala Val Thr Met Gly Pro Lys Gly Arg Thr Val Ile Ile  
50 55 60  
Glu Gln Ser Trp Gly Ser Pro Lys Val Thr Lys Asp Gly Val Thr Val  
65 70 75 80  
Ala Lys Ser Ile Asp Leu Lys Asp Lys Tyr Lys Asn Ile Gly Ala Lys  
85 90 95  
Leu Val Gln Asp Val Ala Asn Asn Thr Asn Glu Glu Ala Gly Asp Gly  
100 105 110  
Thr Thr Thr Ala Thr Val Leu Ala Arg Ser Ile Ala Lys Glu Gly Phe  
115 120 125  
Glu Lys Ile Ser Lys Gly Ala Asn Pro Val Glu Ile Arg Arg Gly Val  
130 135 140  
Met Leu Ala Val Asp Ala Val Ile Ala Glu Leu Lys Lys Gln Ser Lys  
145 150 155 160  
Pro Val Thr Thr Pro Glu Glu Ile Ala Gln Val Ala Thr Ile Ser Ala  
165 170 175  
Asn Gly Asp Lys Glu Ile Gly Asn Ile Ile Ser Asp Ala Met Lys Lys  
180 185 190

Val Gly Arg Lys Gly Val Ile Thr Val Lys Asp Gly Lys Thr Leu Asn  
 195 200 205  
 Asp Glu Leu Glu Ile Ile Glu Gly Met Lys Phe Asp Arg Gly Tyr Ile  
 210 215 220  
 Ser Pro Tyr Phe Ile Asn Thr Ser Lys Gly Gln Lys Cys Glu Phe Gln  
 225 230 235 240  
 Asp Ala Tyr Val Leu Leu Ser Glu Lys Lys Ile Ser Ser Ile Gln Ser  
 245 250 255  
 Ile Val Pro Ala Leu Glu Ile Ala Asn Ala His Arg Lys Pro Leu Val  
 260 265 270  
 Ile Ile Ala Glu Asp Val Asp Gly Glu Ala Leu Ser Thr Leu Val Leu  
 275 280 285  
 Asn Arg Leu Lys Val Gly Leu Gln Val Val Ala Val Lys Ala Pro Gly  
 290 295 300  
 Phe Gly Asp Asn Arg Lys Asn Gln Leu Lys Asp Met Ala Ile Ala Thr  
 305 310 315 320  
 Gly Gly Ala Val Phe Gly Glu Glu Gly Leu Thr Leu Asn Leu Glu Asp  
 325 330 335  
 Val Gln Pro His Asp Leu Gly Lys Val Gly Glu Val Ile Val Thr Lys  
 340 345 350  
 Asp Asp Ala Met Leu Leu Lys Gly Lys Gly Asp Lys Ala Gln Ile Glu  
 355 360 365  
 Lys Arg Ile Gln Glu Ile Ile Glu Gln Leu Asp Val Thr Thr Ser Glu  
 370 375 380  
 Tyr Glu Lys Glu Lys Leu Asn Glu Arg Leu Ala Lys Leu Ser Asp Gly  
 385 390 395 400  
 Val Ala Val Leu Lys Val Gly Gly Thr Ser Asp Val Glu Val Asn Glu  
 405 410 415  
 Lys Lys Asp Arg Val Thr Asp Ala Leu Asn Ala Thr Arg Ala Ala Val  
 420 425 430  
 Glu Glu Gly Ile Val Leu Gly Gly Gly Cys Ala Leu Leu Arg Cys Ile  
 435 440 445  
 Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly  
 450 455 460  
 Ile Glu Ile Ile Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Ile Ala  
 465 470 475 480  
 Lys Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln  
 485 490 495  
 Ser Ser Ser Glu Val Gly Tyr Asp Ala Met Ala Gly Asp Phe Val Asn  
 500 505 510

Met Val Glu Lys Gly Ile Ile Asp Pro Thr Lys Val Val Arg Thr Ala  
515 520 525

Leu Leu Asp Ala Ala Gly Val Ala Ser Leu Leu Thr Thr Ala Glu Val  
530 535 540

Val Val Thr Glu Ile Pro Lys Glu Glu Lys Asp Pro Gly Met Gly Ala  
545 550 555 560

Met Gly Gly Met Gly Gly Gly Met Gly Gly Gly Met Phe  
565 570

<210> 2  
<211> 15  
<212> PRT  
<213> Mycobacterium

<400> 2

Gly Glu Ala Leu Ser Thr Leu Val Val Asn Lys Ile Arg Gly Thr  
1 5 10 15

<210> 3  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 3

Gly Glu Ala Leu Ser Thr Leu Val Leu Asn Arg Leu Lys Val Gly  
1 5 10 15

<210> 4  
<211> 15  
<212> PRT  
<213> Mycobacterium

<400> 4

Pro Tyr Ile Leu Leu Val Ser Ser Lys Val Ser Thr Val Lys Asp  
1 5 10 15

<210> 5  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 5

Ala Tyr Val Leu Leu Ser Glu Lys Lys Ile Ser Ser Ile Gln Ser  
1 5 10 15

<210> 6  
<211> 15  
<212> PRT  
<213> Mycobacterium

<400> 6

Glu Ala Val Leu Glu Asp Pro Tyr Ile Leu Leu Val Ser Ser Lys  
1 5 10 15

<210> 7  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 7

Lys	Cys	Glu	Phe	Gln	Asp	Ala	Tyr	Val	Leu	Leu	Ser	Glu	Lys	Lys
1				5					10					15

<210> 8  
 <211> 15  
 <212> PRT  
 <213> Mycobacterium

<400> 8

Ile	Ala	Gly	Leu	Phe	Leu	Thr	Thr	Glu	Ala	Val	Val	Ala	Asp	Lys
1				5					10					15

<210> 9  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 9

Val	Ala	Ser	Leu	Leu	Thr	Thr	Ala	Glu	Val	Val	Val	Thr	Glu	Ile
1				5					10					15

<210> 10  
 <211> 15  
 <212> PRT  
 <213> synthetic construct

<400> 10

Gln	Lys	Arg	Ala	Ala	Tyr	Asp	Gln	Tyr	Gly	His	Ala	Ala	Phe	Glu
1				5					10					15

<210> 11  
 <211> 15  
 <212> PRT  
 <213> synthetic construct

<400> 11

Asp	Glu	Arg	Ala	Ala	Tyr	Asp	Gln	Tyr	Gly	His	Ala	Ala	Phe	Glu
1				5					10					15

<210> 12  
 <211> 11  
 <212> PRT  
 <213> synthetic construct

<220>  
 <221> VARIANT  
 <222> (2)..(2)  
 <223> Xaa is any amino acid

&lt;400&gt; 12

Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala  
 1 5 10

&lt;210&gt; 13

&lt;211&gt; 573

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 13

Met Leu Arg Leu Pro Thr Val Phe Arg Gln Met Arg Pro Val Ser Arg  
 1 5 10 15

Val Leu Ala Pro His Leu Thr Arg Ala Tyr Ala Lys Asp Val Lys Phe  
 20 25 30

Gly Ala Asp Ala Arg Ala Leu Met Leu Gln Gly Val Asp Leu Leu Ala  
 35 40 45

Asp Ala Val Ala Val Thr Met Glu Pro Lys Gly Arg Thr Val Ile Ile  
 50 55 60

Glu Gln Ser Trp Gly Ser Pro Asn Val Thr Lys Asp Gly Val Thr Val  
 65 70 75 80

Ala Lys Ser Ile Asp Leu Lys Asp Lys Tyr Lys Asn Ile Gly Ala Lys  
 85 90 95

Leu Val Gln Asp Val Ala Asn Asn Thr Asn Glu Glu Ser Gly Asp Gly  
 100 105 110

Thr Thr Thr Ala Thr Val Leu Ala Gly Ser Ile Ala Lys Glu Gly Phe  
 115 120 125

Gln Lys Ile Ser Lys Gly Ala Asn Pro Val Glu Ile Arg Arg Gly Val  
 130 135 140

Met Leu Ala Val Asp Ala Val Ile Ala Glu Leu Lys Lys Gln Ser Lys  
 145 150 155 160

Pro Val Thr Thr Pro Glu Glu Ile Ala Gln Val Ala Met Ile Ser Ala  
 165 170 175

Asn Gly Asp Lys Glu Ile Gly Asn Ile Ile Ser Asp Ala Met Lys Lys  
 180 185 190

Val Gly Arg Lys Gly Val Ile Thr Val Lys Asp Gly Lys Thr Leu Asn  
 195 200 205

Asp Glu Leu Glu Ile Ile Glu Gly Met Lys Phe Asp Arg Gly Tyr Ile  
 210 215 220

Ser Pro Tyr Phe Ile Asn Thr Ser Lys Gly Gln Lys Cys Glu Phe Gln  
 225 230 235 240

Asp Ala Tyr Val Leu Leu Ser Glu Lys Lys Ile Ser Ser Val Gln Ser  
 245 250 255

Ile Val Pro Ala Leu Glu Ile Ala Asn Ala His His Lys Pro Leu Val  
 260 265 270  
 Ile Ile Ala Glu Asp Val Asp Gly Glu Ala Leu Ser Thr Leu Ile Leu  
 275 280 285  
 Asn Arg Leu Lys Val Gly Leu Gln Val Val Ala Val Lys Ala Pro Gly  
 290 295 300  
 Phe Gly Asp Asn Arg Lys Asn Gln Leu Lys Asp Met Ala Ile Ala Thr  
 305 310 315 320  
 Gly Gly Ala Val Phe Gly Glu Glu Gly Leu Thr Leu Asn Leu Glu Asp  
 325 330 335  
 Val Gln Pro His Asp Leu Gly Lys Val Gly Glu Val Ile Val Thr Lys  
 340 345 350  
 Asp Asp Ala Met Leu Leu Lys Gly Lys Gly Asp Lys Ala Gln Leu Glu  
 355 360 365  
 Lys Arg Ile Gln Glu Ile Ile Gly Gln Leu Asp Val Thr Thr Ser Glu  
 370 375 380  
 Tyr Glu Lys Glu Lys Leu Asn Glu Trp Leu Ala Lys Leu Ser Asp Gly  
 385 390 395 400  
 Val Val Val Leu Lys Phe Gly Gly Thr Ser Asp Val Glu Val Asn Glu  
 405 410 415  
 Lys Lys Asp Arg Val Thr Asp Ala Leu Asn Ala Thr Arg Ala Ala Val  
 420 425 430  
 Glu Gly Gly Ile Val Leu Gly Gly Gly Phe Ala Leu Leu Arg Cys Ile  
 435 440 445  
 Pro Ala Leu Asp Ser Leu Thr Pro Ala Asn Glu Asp Gln Lys Ile Gly  
 450 455 460  
 Met Glu Ile Val Lys Arg Thr Leu Lys Ile Pro Ala Met Thr Thr Ala  
 465 470 475 480  
 Thr Asn Ala Gly Val Glu Gly Ser Leu Ile Val Glu Lys Ile Met Gln  
 485 490 495  
 Asn Ser Ser Glu Val Gly Tyr Asp Ala Met Val Gly Asp Phe Met Asn  
 500 505 510  
 Met Val Glu Lys Gly Ile Ile Asp Pro Thr Lys Leu Val Arg Thr Ala  
 515 520 525  
 Leu Leu Asp Ala Ala Gly Val Ala Ser Leu Leu Thr Thr Ala Glu Val  
 530 535 540  
 Val Val Thr Glu Ile Pro Lys Glu Glu Lys Asp Pro Gly Met Gly Ala  
 545 550 555 560  
 Met Gly Gly Met Gly Gly Gly Met Gly Gly Gly Met Phe  
 565 570